Em50/Em50R/Em50 Solar

Quick Start Guide

Introduction

Thank you for purchasing an Em50 series data logger. This data collection device allows you to collect and store data from up to five sensors. The stored data can be downloaded using the included USB cable or via radio to a base station (in case of the Em50R). It is con-figured using either DataTrac3,or ECH2O software

Packing List

Please check to make sure all listed items are present. If any item is missing or damaged, please contact Decagon or your local distributor.

- Em50 series data logger (Em50 or Em50R)
- USB cable
- Packet with 5 zip-ties and 5 AA alkaline batteries
- Antenna (Em50R)
- USB flashdrive with Software, driver and manual.
  Note: The DataTrac3 or ECH2O Utility software and driver is required for communication with the Em50 series data loggers. The software and driver must be installed before using the Em50 (see the manual for software and driver installation instructions).

Turning on and Configuring the Em50

1. Install the 5 AA Alkaline batteries (included with shipment).
   Note: Em50 Solar logger comes with batteries preinstalled. Remove battery pull-tab to activate batteries. Use only NiMH (Nickel-Metal Hydride batteries with the Em50 Solar logger.
2. Press the silver reset button located above the batteries.
3. Connect the USB cable from your computer's USB port to the Em50's COMM port.
4. Launch DataTrac, ECH2O Utility or ECH2O Utility Mobile software.
5. Select "Direct on COM..." from the "Connect via" dropdown menu.
6. Click on the Connect icon.
7. On the main menu, name the Em50 using a maximum of 8 characters (optional).
8. Select the sensors you will be using in each port, as well as a measurement interval.
9. If using a radio-enabled Em50R, set the Radio Channel (0 through and Radio Subchannel (0 through 65534) to correspond with the DataStation or Rm1 to which you will be broadcasting.

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10. Make any other desired configuration settings, then click “Apply.”
11. When first setting up the Em50, erase the memory. This ensures a clean data set before taking measurements.
12. Log off the Em50 by clicking the **Disconnect** icon.
13. Exit DataTrac3 or ECH2O Utility.

Note: If you are have trouble with these steps, consult the troubleshooting section of the Em50/Em50R User’s Manual.

Installing the Em50

1. Attach the Em50 in an upright position to a firm post or PVC pipe, using the 5 zip ties or similar fasteners.
2. If using the Em50R , ensure there is a good line of sight between the logger and your base station. Radio signal strength can be attenuated by obstructions.
3. If using the Em50 Solar data logger, install the logger in a location that ensures the solar panel receives the maximum amount of sunlight. In the northern hemisphere this typically means the data logger should face South. In the southern hemisphere this typically means that the data logger should face North.

Downloading Data

1. Connect your computer to the Em50 using the USB cable and an available COM port.
2. Start DataTrac3 or ECH2O Utility
3. Select "Direct on COM..." in the "Connect via" dropdown menu.
4. Click on the Connect icon.
5. Select the Download icon. to get the data from the Em50. The next time you sleect the Download icon you will only get data collected since the last download. You can download all data at any time under the Actions tab. (See manual)
6. Log off the Em50 by selecting Disconnect.

Turning Off the Em50

To turn off the Em50, either set the measurment interval to “0 minutes” or remove the batteries.

Note: For more detailed information, see the Em50 series User’s Manual.

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